Q - 25 BKOVA V P

AUTHORS:

Glushkova, V. P., and Kocheshkov, K. A., Corresponding member All USSR. 20-2-19/50

TITLE: A New Method of Synthesis for Or, anothellium Compounds of the ArTIX, Class (Novyy metod sinteza talliyor an; sheskikh

noyedineniy klassa ArTIX.,).

FERIODICAL: Doklady AN SSSR, 1957. Vol. 116, Nr 2. pp. 235-235 (USSR)

ABSTRACT: The absence of reliable production methods represents a considerable gap in the chemistry of the above-mentioned

compounds and therefore the ArTIX2-class is not easily

accessible. The Challenger method (over organoboren compounds) consists of several stages and besides leads to secondary processes. Thus so e authors described ArTIX, (X=haloid) as colored substances, when produced according to Challenger, whereas in reality they are colorless (see below). In this paper the authors for the first time described the product on method of ArTIX2 (Xarest of an organic soid) with the use

of or anic acids of trivalent thallium in a reaction with organomercury compounds. The reaction water rapidly proceeds

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A New method of Synthesis for Organothallium Compensas of 20-2-19/50 the ArTlX2-Class

at room temperature leads with good yields to excellently crystallizing compounds of the ArTIX_-class. They are stable, do not tend toward secondary transformations and are color-less. When the salts of organic acids are used, the reaction can at choice (according to the molar relations selected) be from the corresponding or anomerousy compounds, the organothallium compounds ArTI(UOCR) or Ar FIOCCR can also be

attained with substituents in the nucleus. The compounds obtained by the authors are identical with those that are synthesized according to their own method of a direct thallination. Phenylthallium-isobutyrate can thus be produced from benzene and thallium-triisobutyrate (90 % yield). The reaction "inverse to disproportionation" also leads to corlor-less organothallium compounds with a quantitative yield. The not lead to the rest of an organic and by haloridad here not lead to the formation of color either. Thus the color described in publications is the result of admixtures. An experimental part with the usual data follows.

Card 2/3

A New Method of Synthesis for Or; anothallium Compounds of the ArTlX2-Class 20-2-19/50

Phere are 6 references, 4 of which are Slavic

ASSOCIATION: Physico-chemical Institute imeni L. Ya. Karpov Fiziko-Khimicheskiy institut im. L. Ya. Karpova).

SUBMITTED: May 10, 1997

AVAILABLE: Library of Congress

Card 3/3

337/70-3-3-5/24 AUTHORS: Zvonkova, Z.V. and Glushkova, V.P.

TITLE: The Crystal Structure of p-bromphenylogric Acid

(Kristallicheskoye stroyeniye p-bromfenilbornoy

kisloty)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 5, pp 559-563 (USSR)

ABSTRACT: 40 crystals of p-BrC $_{6}$ H $_{4}$ B(OH) $_{2}$ from various solvents

were examined by X-ray diffraction. There appeared to be no piezoelectric effect. The cell was found to be hexagonal with a = 28.75 and c = 9.74 A and space group C6/mcc = C6b with Z = 36 and $d_{calc.} = 1.72$; d_{cbs.} = 1.67 g/cm⁵. There are 5% arous in the unit cell. The Patterson functions $F^2(hk0)$ and $F^2(hk1)$ were constructed which showed only peaks corresponding to Br-Br vectors. The Br atoms were found to lie in mirror planes with $z \neq 0$ and z = 1/2. It was assumed that the atoms Br, C_1 , C_2 and B lie triply in the positions 12(e). The atoms c_2, c_5, c_5, c_6

and H α cupy the general positions 24(m). Cardl/5

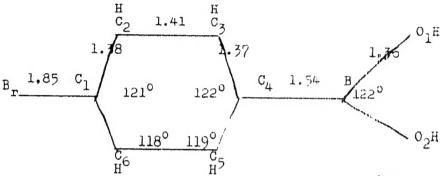
The Crystal Structure of p-bromphenylboric Acid

co-ordinates of the three independent Br atoms were found from F^2 series. Weissenberg photographs were taken for 7 layers about the c axis and these were connected by a -axis photographs. In all, 588 independent reflections were collected. The sections at xy0 and x, y, 0.123 were calculated. The heights of the three Br peaks were 85, 91 and 82 and of the C atoms were 16-20. The Br peaks were thought to be slightly lowered by their antisymmetric arrangement. The final co-ordinates are entered in Table 2, p 560. When a temperature factor of B=4 was applied, a final relating the plane of the molecule to the OlO plane are $\emptyset_1 = 41^\circ$, $\emptyset_2 = 52^\circ$ and $\emptyset_3 = 50^\circ$. The bond lengths and angles are:

Card 2/5

SOV/70-3-5-5/24

The Crystal Structure of p-bromphenylboric Acid



(Fig 3, p 561).

The Br-C bond length is 1.85 A comparing with the values of 1.85 and 1.87 reported in other compounds. The maximum value of the deviation of individual molecular dimensions from the mean over the three molecules is 0.03 A. The C_1-C_2 (and C_1-C_6) bonds are shortened to 1.38 and the C_3-C_4 (and C_4-C_5) to 1.37. The C_2-C_3 (C_5-C_6) bonds are

Card3/5

SUV/70-3-5-5/24

The Crystal Structure of p-bromphenylboric Acid

lengthened to 1.41. Similar observations have been male in benzoic acid. In captax (2-mercaptobenzthiazol) deformation was also measured. These results show the changes in the interatomic distances due to the differing participation of the s and p electrons in the bonds. An estimate of the intermolecular radius of C can be obtained (1.67 A) which is near to the values in graphite (1.675) and in captax (1.685). The introduction of the acceptor group B(OH)₂ decreases the radius from the value of 1.80 found in benzene to this value. The benzene nucleus has become finer and the pi-electron cloud is decreased. Acknowledgments are made to Z.P. Linina, A.N. Khvatkina and A.N. Abramova.

Card 4/5

The Crystal Structure of p-bromphenylboric Acid SOV/70-3-5-5/24

There are 6 figures, 2 tables and 10 references, 6 of which are Soviet, 3 English and 1 Scandinavian

ASSOCIATION: Fiziko-khimicheskiy institut Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute im. L. Ya. Karpov)

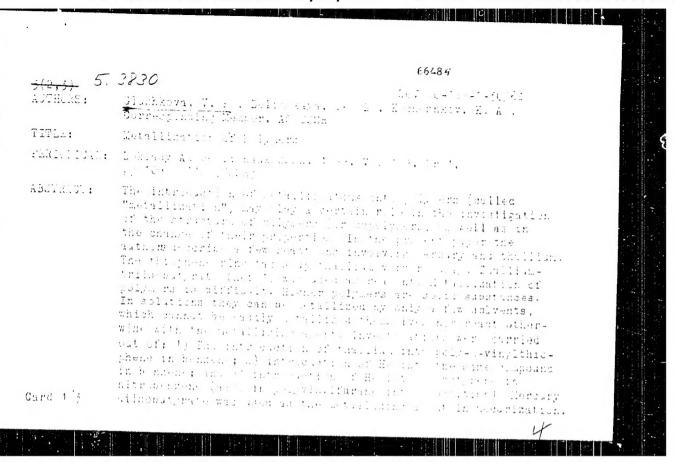
SUBMITTED:

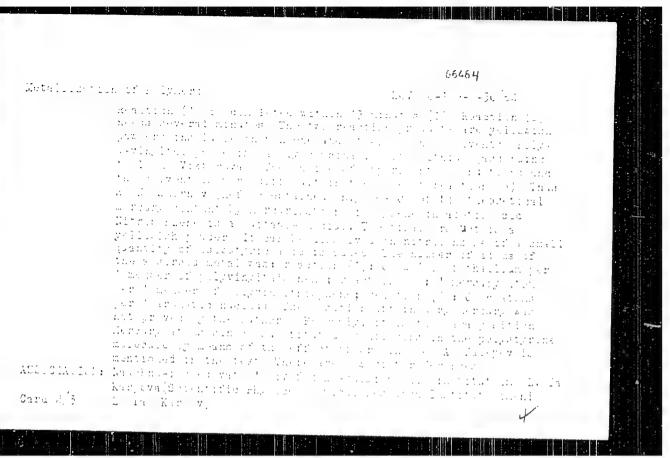
July 1, 1957

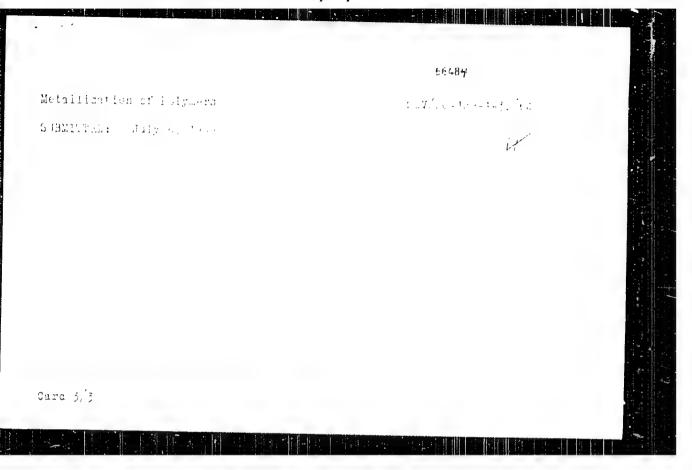
Card 5/5

CIA-RDP86-00513R000515430002-1" APPROVED FOR RELEASE: 09/24/2001

GUTHEOVA, V. I.: Machan Chem Sel (Alea) -- "Importional and appropriation of appropriation of appropriation of appropriation of the control o



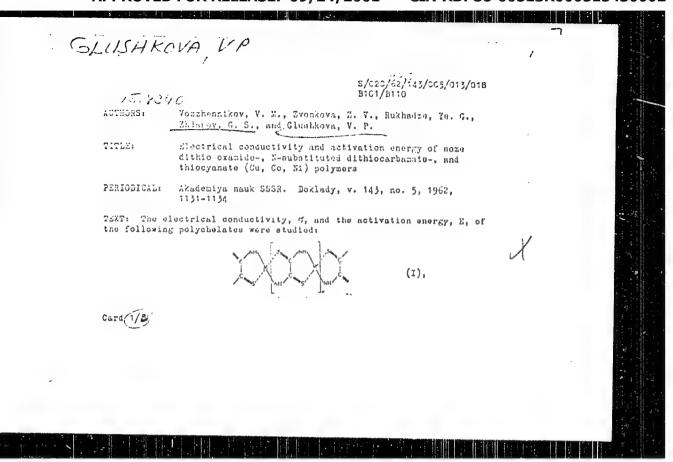




ZVONKOVA, Z.V.; ASTAKHOVA, L.I.; GLUSHKOVA, V.P.

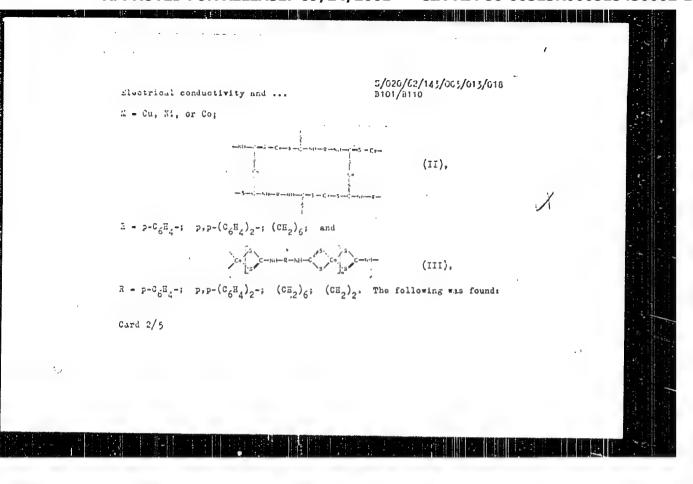
Atomic sturcture of totramethylthiouroa. Kristallegrafila 5 no.4: 547-552 Jl-A/; '60. (MIRA 13:9)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. (Urea)

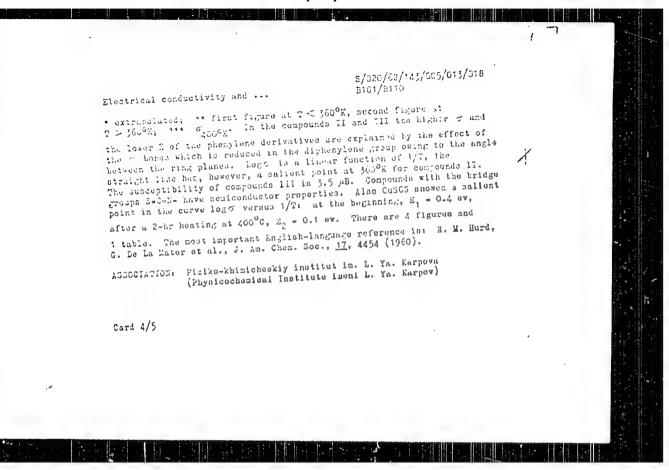


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3/5	rd 3/5
3/5	rd 3/5



L 20933-65 EPF(c)/EPA(s)-2/ENP(1)/ENT(m)/ENP(b)/ENP(t) Pc-A/PT-A/Pt-10/Pad 1JP(c)/RPL RA/JD/M ACCESSION NR: APSO04602 S/0020/65/150/002/0405/0403

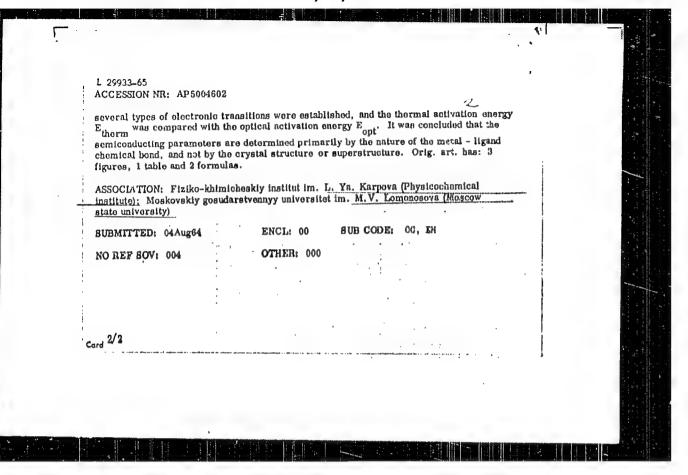
AUTHOR: Terent'yev, A.P. (Corresponding member AN SSSR); Vornhennikov, V. H.; Vollingov, O. V.; Zvonkova, Z. V.; Rukhadze, Ye. G.; Glundhova, V. P.; Rersakla, V. V.

TITLE: Semiconducting and optical properties of copper, nickel, zinc, and cadmium (Additiocarbamates)

SOURCE: AN SSR. Doklady, v. 160, no. 2, 1965, 405-408

TOPIC TAGS: copper dithiocarbamato, nickel dithiocarbamate, zinc dithiocarbamate, cadmium dithiocarbamato, dithiocarbamate semiconducting property, dithiocarbamate ontical property, organic semiconductor, chelate electrical property, polychelate conductivity, activation energy

ABSTRACT: This paper is part of a study of a series of chelates and polychelates simed at determining the dependence of their electrical properties on their storic structure and nature of their chemical bonds: this in turns vital in the symbosis of organic semiconductors. In this work, it was found that the electrical conductivity depends on the concenductors. In this work, it was found that the electrical properties on their almost of the concenductors. In this work, it was found that the electrical properties on their almost of the concenductors. In this work, it was found that the electrical properties on their almost of the media, is indicated by the highly conductive copper compounds. All the chelates and polychelates studied were substances with high electrical resistance. On the basis of their absorption spoctra, Card 1/2



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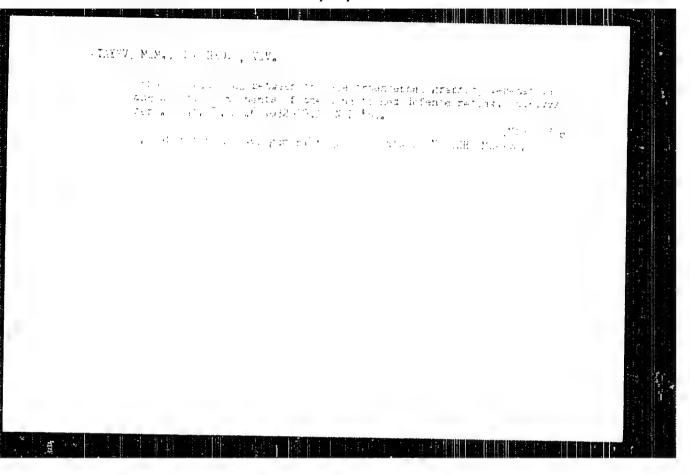
C NR: AP7005108	SOURCE CODE: UR/0079/66/036/009/1690/1693	
ELISHKOVA, V. P., KOCHESHKOV, K. A.		
'Salts of the Organic Acids of Trive	alent Thallium"	
oscow, Zhurnal Obshchey Khimii, Vol	1 36, No 9, 66, pp 1690-1693	
ne authors synthesized for the first rivalent thallium: thallium triben ri-n.caprylata, and thallium triben y dissolving thallium trioxide Tl ₂ C espectively, while thallium tri-n.c esacetylation. All of these salts he tored over phosphorus pentoxide. True, 5 C) but they are lower than the cid salts of monovalent thallium. It estates of trivalent thallium are reducted actions acid. [JPES: 38,970] RG: none OPIC TAGS: thallium compound, organ UB CODE: 07 / SUBM DATE: 01Ju165	starting substances for the cynthesis of suge reactions with organemercuric compounds. Set time the following organic acid salts of abutyrate, thallium tripropionate, thallium tropate. The first two compounds were obtained by in boiling isobutyric and propionic acids appylate and tribenzeate were obtained by ydrolyne in air but are quite stable when heir melting points are fairly high (119-melting points of the corresponding organic when troated with hydraxine hydrate, the cod to salts of monovalent thallium of the momentallic compound, organic-compound / ORIG REF: 002 / OTH REF: 002	
1/1	UDC: 546.683 + 547.13	

FOSTOL, G.S.; CHEMINKH, Ye.F.; KHAVTSOVA, K.K.; GLUSHKOVA, V.S.

Bynanics of rheumatic fever incidence in children in Khabarovak
Territory according to hospital data for five years. Vor.akh.
mat. i det. 7 no.12:79 D*62. (MIMA 16:7)

1. Iz klimiki detskikh bolezney Khabarovskogo meditsinskogo instituta i Khabarovskogo krayevogo obdela zdravookhraneniya.

(CHILDERN--DISEASES) (GMECOLOGY)



OLUSHKOVA, Ye.K., nauchnyy sotrudnik

Gonditioning of young children to cold by baths. Gig. 1 san. 21
no.11:28-36 N '56. (MLTA 10:2)

1. Iz otdels gigiyeny Mauchno-issledovatel'skogo cediatricheskogo
instituts. Gig. 1 san.21 no.11:28-36 N '56. (KLRA 10:2)

(TEMPERATURE conditioning of young child. to cold temperature)

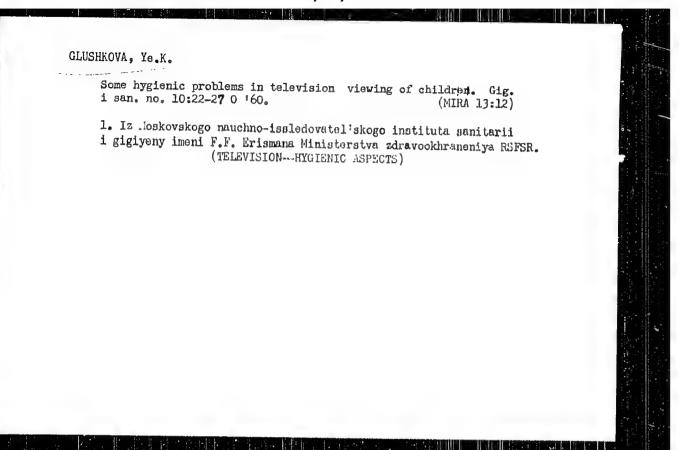
GLUSHKOVA, Ye. K., Candidate Med Sci (diss) -- "The hygienic characteristics of positive films of children and conditions for their use". Moscow, 1959.

12 pp (Acad Pedagogical Sci RSFSR, Sci Res Inst of Physical Training and School Rygiene), 150 copies (KL, No 24, 1959, 149)

GUISHKOVA, Ye.K.

Guiliren's filtrips and their demonstration from the bygienic point of view. Gig.1 san. 25 no.1: 11-16 Ja 160. (MIRA 13:5)

1. Iz Moskovskogo nauchno-issledovatel'skogo instituta sanitarii i gigiyeny imeni F.F. Erismana Ministerstva zdravookhraneniya RSFSR, (AUDIO-VISUAL AIDS)



GLUSHKOVA, Ye.K.

Some hygienic problems of planning classrooms and the arrangement of furniture. Nauch. inform. Otd. nauch. med. inform. AMN SSSR no.1:52-53 '61 (MTRA 16:11)

1. Institut gigiyeny detey i podrostkov (ispolnymyushchiy obyazannosti direktora - prof. S.M. Grombakh) AMN SSSR, Moskva.

BELOSTOTSKAYA, Ye.M.; GLUSHKOVA, Ye.K.; GROWHARD, S.M.; SULHARDY, A.G.;
TELESHEV, V.A.; THEOKHUMA, Ye.A.; PROTOPOFCVA, V.A.

Hygienic problems in the organization of work of students in agriculture.
Gig. i san. 26 no.6:52-57 Js '61. (PINA 15:5)

1. Iz Moskovskogo nauchno-isuladovatel'skogo instituta gigiyeny immi
F.F.Erismana Ministerstva zdravockhraneniya MSFSk i Stavropol'skey
krayevoy sanitarno-epidemiologichoskoy stantsii.

(CHILDREN IN AGRICULTURE--HYGINGIC ASPECTS)

GLUSHKOVA, Ye.K., mladshiy nauchnyy sotrudnik

"The angle of vision" as a supplementary criterion in planning class rooms and the arrangement of furniture. Gig.i san. 26 no.12:34-38 D *61. (MEA 15:9)

1. Iz Instituta gigiyeny detey i podrostkov AMN SSSR. (SCHOOL HYGIENE)

KOZIK, S.M.; KALININ, Yu.D., professor; AFANAS YEVA, V.I., kandidat fizikomatematicheskikh nauk; PENKKVICH, M.S., kandidat fiziko-matematicheskikh nauk; GIUSHKOVA, Ye.P.; KUZNETSOVA, Z.S.; BRLOUSOVA, M.A.; SOLOVEYCHIK, A.A., tekhnicheskiy redaktor

[Manual on variation in the magnetic field of the U.S.S.R.]

Sprayochnik po peremennomu magnitnomu poliu SSSR. Pod red. V.I.

Afanas'evoi. Leningrad, Gidrometeor.izd-vo, 1954. 265 p. (MLRA 10:7)

Leningrad. Nauchno-issledovatel'skiy institut zemnogo magnetizma.
 Nauchno-issledovatel'skiy institut zemnogo magnetizma (for Kalinin, Afanas'yeva, Belousova)
 Tashkentskaya nauchno-issledovatel'skaya geofizicheskaya observatoriya (for Kozik).
 Glavnaya Geofizicheskaya observatoriya (for Penkevich, Glushkova, Kuznetsova) (Magnetism, Terrestrial)

L 山山30-66 EWT(1)/FCC GW

ACC NR: AT6023732 SOURCE CODE: UR/2831/65/000/014/0104/0116

AUTHOR: Glushkova, Ye. P.

ORG: none

TITLE: Some peculiarities of magnetoionospheric disturbances in the transitional zone

SOURCE: AN SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. V razdel programmy MGG: Ionosfera. Sbornik statey, no. 14, 1965. Ionosfernyye issledovaniya, 104-116

TOPIC TAGS: magnetic storm, ionosphere disturbance, geomagnetic field, aurora, Van Allen belt

ABSTRACT: The author discussed in detail peculiarities of magnetoionospheric disturbances in the transition zone; the upper limits in the Eastern Hemisphere are near $62~\mathrm{N}$ and in the Western Hemisphere near $42~\mathrm{N}$, and the lower limits in the Eastern and Western Hemispheres are $55~\mathrm{N}$ and $35~\mathrm{N}$, respectively and are

Card 1/2

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ACC NR: AT6023732

located near the auroral zone. Observations covered the period extending mainly over the last months of 1958 and most of 1959 because the most complete data on ionospheric observations made with vertical soundings made available to the author covered this period. The article shows that during severe, very strong magnetic storms, De-variations of H and Z components of the geomagnetic field occur in synphases. Phenomena characteristic of the auroral-zone disturbances are observed in the ionosphere. Blackouts are observed only in cases during the positive phase of a storm when a sudden peak in the H component, warns of the approach of the current system to the observation point. Moreover, the negative phase of the storm should be well developed. As the transition zone is located approximately in the latitudes where the outer radiation belt is closest to the earth's surface, it is suggested that there may be connection between certain phenomena observed during magnetoionospheric disturbances and the movement of particles in the outer radiation belt. The author is extremely grateful to the scientific associates of AANII, A. S. Besprozyannoya and A. I. Ol', for valuable suggestions made in course of this work. Orig. art. has: 6 figures. [GC]

SUB CODE: 08, 04, 20/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 009/

Card 2/2 0

GLUSHKUTA, YE

37-12-4/12

· AUTITIOR :

Penkevich, M. S., Glushkova, Ye. P., Kuznetsova, Z. S.

TITLE:

Some Common Regularities in the Daily Variations of the Earth's

Magnetic Field Established by Soviet Polar Observatories

(Nekotoryye obshchiye zakonomernosti sutochnykh variatsiy magnitnogo

polya zemli po dannym Sovetskikh polyarnykh observatoriy)

PERIODICAL:

Trudy Nauchno-issledovatel'skogo instituta zemnogo magnetizma,

ionosfery i rasprostraneniya radiovoln, 1957, Nr 12 (22),

pp. 73-85 (USSR)

ABSTRACT:

To analyze a very complicated pattern of magnetic variations in polar regions, long-range observations were studied in regard to declination (D), horizontal component (H), vertical component (Z), and the variations of total force (δ F). The study covered both quiet and disturbed days, grouped into clusters of summer, winter and equinoctial observations. For quiet days the pattern of variations was steady, with only the amplitudes varying. This steady

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Some Common Regularities in the Daily Variations (Con't) 37-12-4/12

pattern was, as a rule, sustained even on disturbed days, but some phenomena differed from those observed on quiet days, e.g., it was found that on the days of minimum magnetic activity (quiet days), a twin wave appeared which was not seen on days of maximum magnetic activity. The article examines the relationship between magnetic amplitudes and solar and magnetic activities, as observed in moderate latitudes. This relationship is reduced to the following formula: A = A. + &W, in which A is the amplitude of magnetic vibrations and W the index of solar activity (equal to the relative number of sun spots). It was found that W, characterizing mainly the short wave (ultraviolet radiation), has no bearing on corpuscular radiation. The best tool for evaluating objectively magnetic amplitudes on disturbed days is the so-called K index, which is calculated from 3-hour intervals (universal time). It was established that the amplitudes of magnetic values grow with latitude, but start to decrease at a certain distance from the pole. In high latitudes, the shape of the distributive curve was found to be of the parabolic type with the spex lying close to 70° latitude. This dependence on latitude is analyzed for quiet and disturbed days, and for the indices concerned

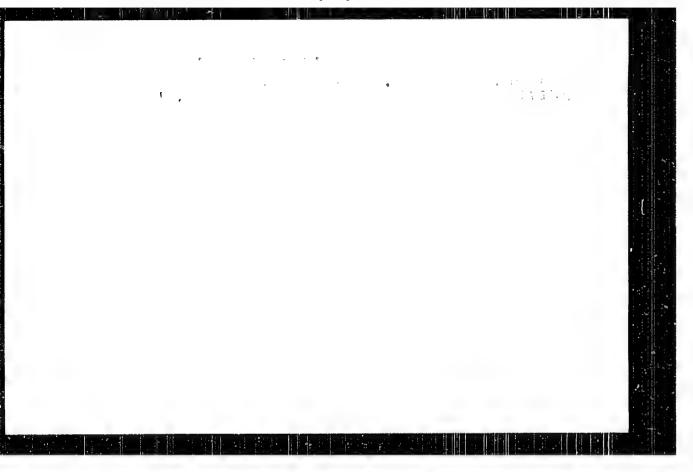
Card 2/3

..... 3/169/62/000/007/140/149 uddog u of 17:11 AUTHOR: Frank May 10. P. 117111: prolemnar, results of investigating magneta-ionssqueric Hotarbances as Voyeykovo Puklidīdah: heferitivny dmirasl, medlinisa, ne. 1. 1902, e. 36-dtmiet 76100 (V sb. longstern. ibsleioviniya, ne. 5. in, ale JUNE, 1301, 40-51) TENT: The rest of the Voyeyhovo magneso-ionospheric observatory (near beningmal) for the period August 1/50 - December 1/59 were used to study the relation of different $E_{\rm S}$ types to the magnetic activity. Mil-latitalinal $n_{_{\mathbf{S}}}$ types are, on the whole, observed on quiet lays. The solar rand of types appear during large and very large magnetic storms. \underline{Z} Abstracter's note: Complete translation. Cará 1/1

GLUSHKOVSKIY, A.Ye.

Malignization of one of the foci of multiple chondromatosis, Vest. rent. i rad. 39 no.4:72-73 Jl-Ag '64. (MIRA 18:7)

1. Gorodskaya bol'nitsa imeni Semashko, gorod Smela Cherkasskoy oblasti.



L 8376-65 EPR Ps-4 GD/AFML/HSD(gs)/RAHM(t) WW

ACCESSION NR: AR4044028 8/0058/5 /200/011/A031/A031

SOURCE: Ref. zh. Fizika, Abs. 11A308

AUTHOR: Glushkovksiy, M. Ye.

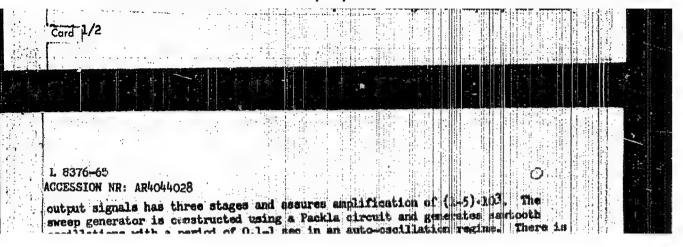
TITLE: SSO-1 stroboscopic oscillograph

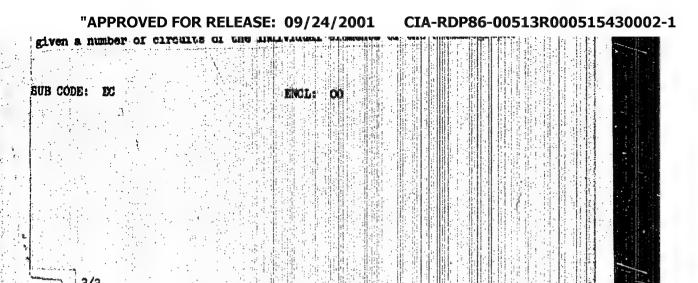
CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yaderu, radioglektronike,

1961. M., Gosatomizdat, 1962, 53-65

TOPIC TAGS: oscillograph, stroboscopic oscillograph/SSO-1 stroboscopic oscillograph

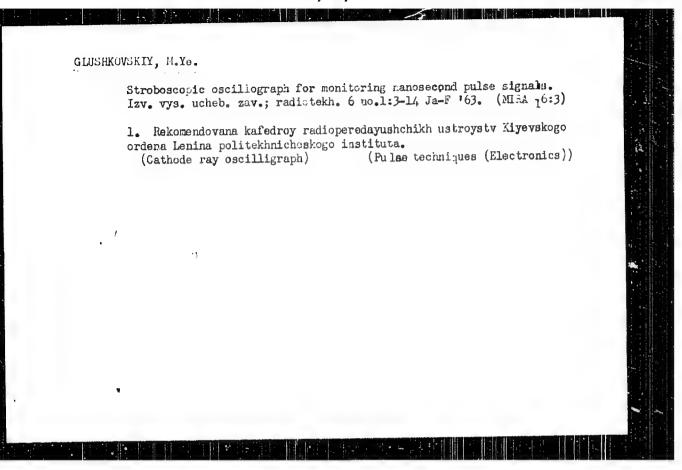
TRANSLATION: For oscillography of periodic processes of name acoustic there is used more and more the stroboscopic method, in which a broad transmission tand is combined with high sensitivity. On the screen of the stroboscopic oscillograph there

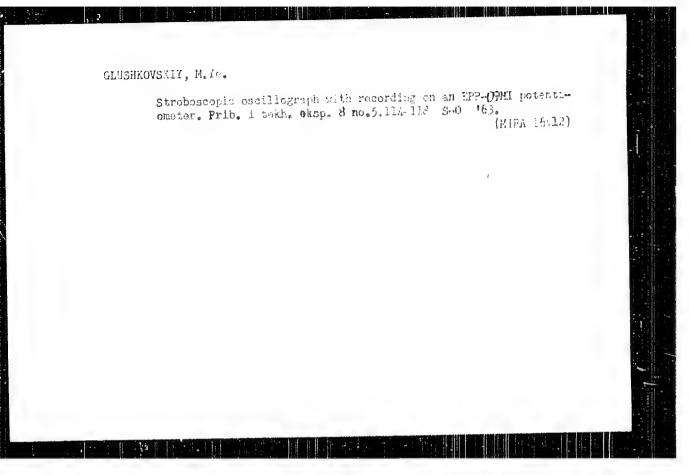




PLOTNIKOVA, M.I.; KARDOPOL'ISEVA, O.I.; SALTYKOV, C.G.; UMANEIS, Y.N.; GLUSHKO'YSKIY, I.B.

Stratigraphy and lithology of "interstream pebble beds" in the Markha-Tyung interfluve and paleography of the time of their accumulation in connection with the formation of diamond-bearing placer deposits in the middle Markha Basin. Trudy IAFAN AN SSSR Ser. geol. no.9:123-141 163. (MIEA 10:12)





L. 40724-65
ACCESSION NR: AP5012179

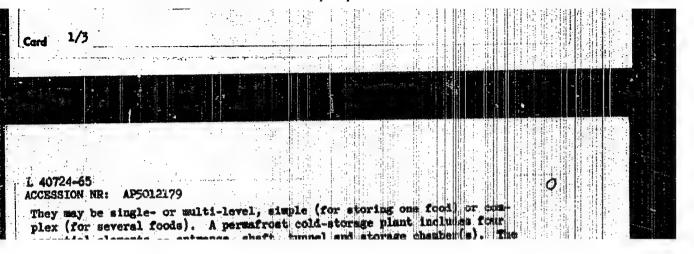
AUTHOR: Glushnev, M. P. (Engineer)

TITLE: Cold-storage plants in permafrost regions

SOURCE: Kholodil naya tekhnika, no. 5, 1964, 22-24

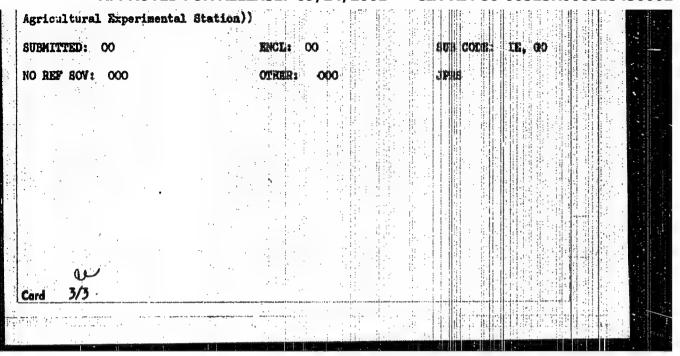
TOPIC TAGS: refrigeration engineering, structural engineering

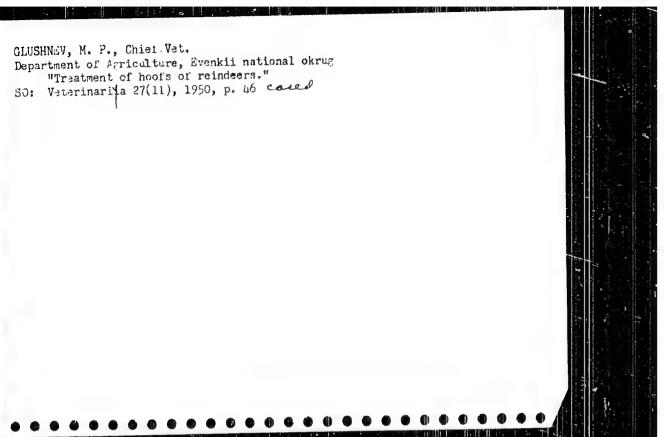
ABSTRACT: The article is a brief description of cold-storage plants in use in Soviet permafrost areas, the Chutkotak region being taken us typic-

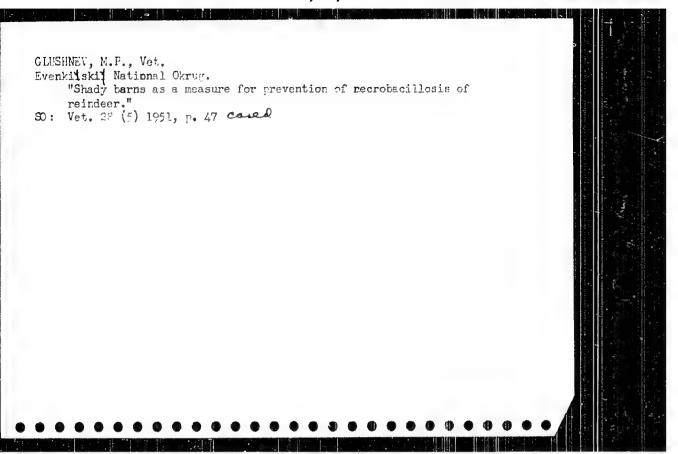


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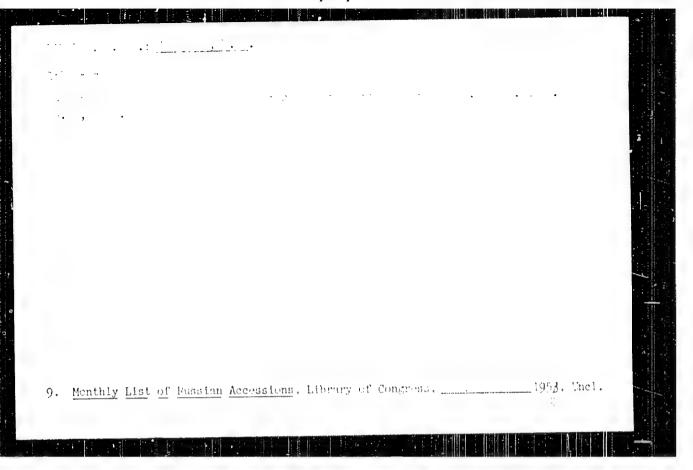
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GLUSHNEV, M.P., veterinarnyy vrach.

Gas chamber for reindeer. Veterinariia 30 no.11:50 5'53.

(MLRA 6:11)

1. Turinekaya vetbaklaboratoriya, Kruenoyarskogo kruya.

GLUSHNEV, M. P.

"Improvements and New Methods in the Fight Against Itchy Scab in Northern Deer." Cand Vet Sci, Leningrad Veterinary Inst, Min Higher Education, Leningrad, 1954. (EL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

USSR/Diseases of Farm Animals. Arachno-Entonoses.

Abs Jour: Ref Zhur-Biol., No 15, 1958, 69510.

Author : Glushnev, M. P.

: Far Eastern Scientific Research Institute of Inst

Agriculture.

: Experience in Combatting the Mange of Reinloor on the Title

Chuk tka Peninsula.

wrig Pub: Byul. nauchno-tekhn. inform. Dal'nevost. n.-i. in-

ta s. kh., 1957, No 4, 38-41.

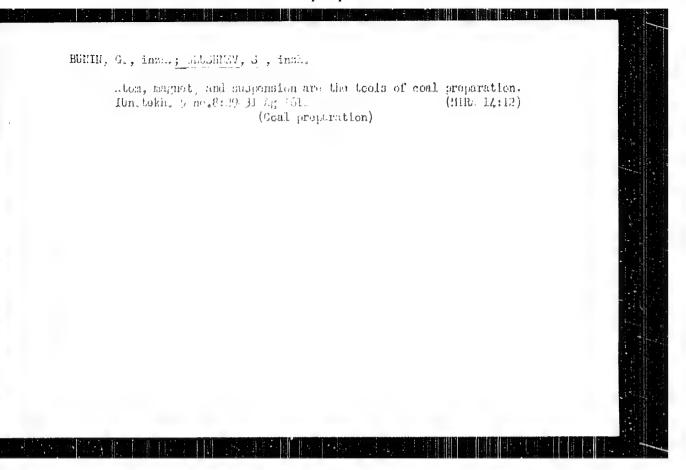
Abstract: For the treatment and prophylaxis of mange in reindeer,

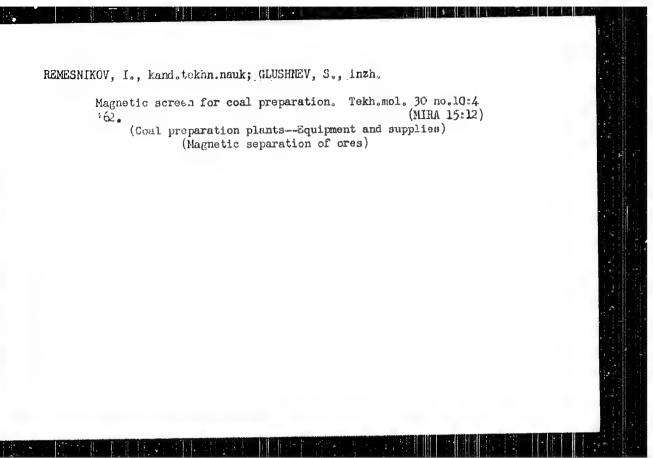
hexachlorocyclohexane-creelin emulsion was used by way of spraying of animals or dipping them in portable or stationary tubs. When dipping was reserted to, cases of poisoning of flwns by hexachlorocyclohexane occurred as a result of the stratification of the

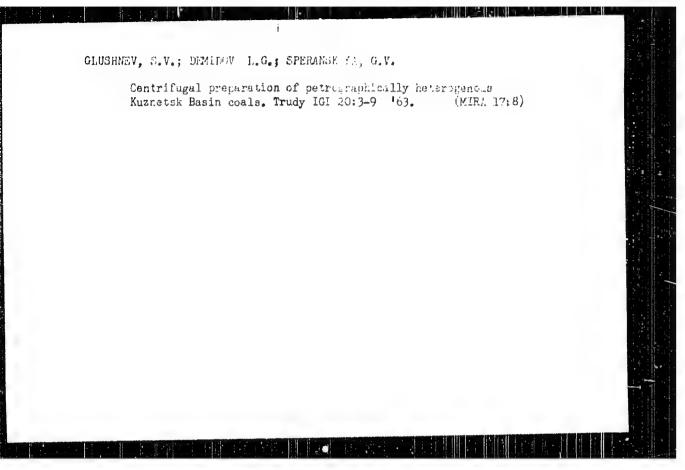
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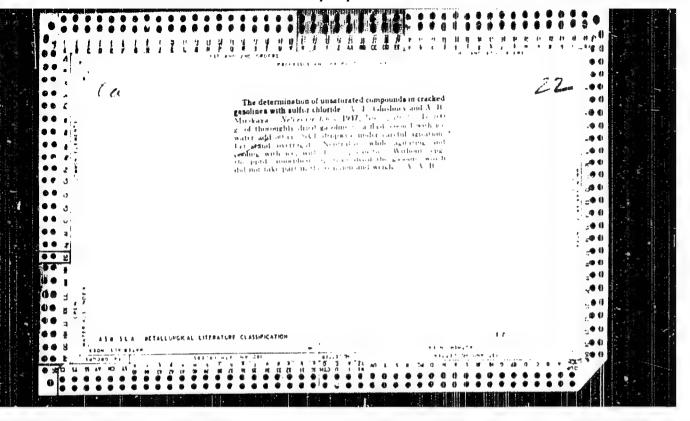
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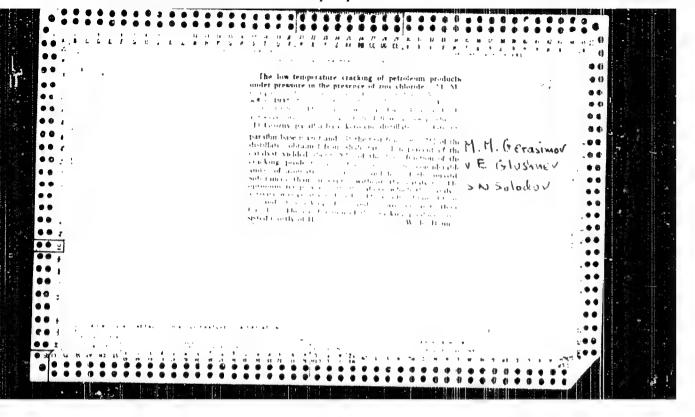
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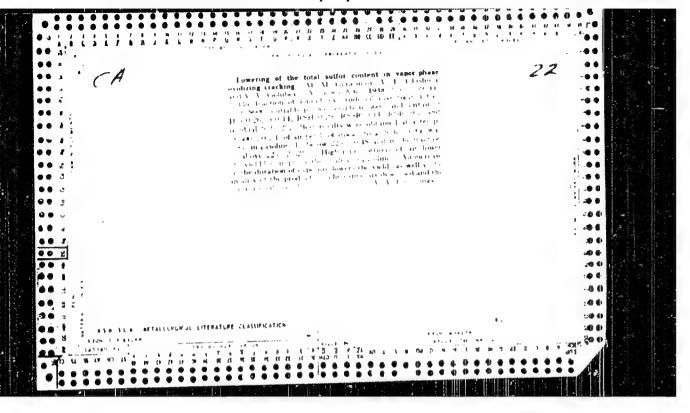


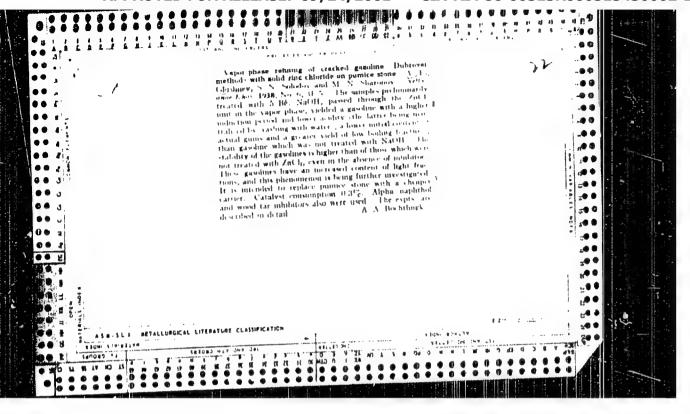


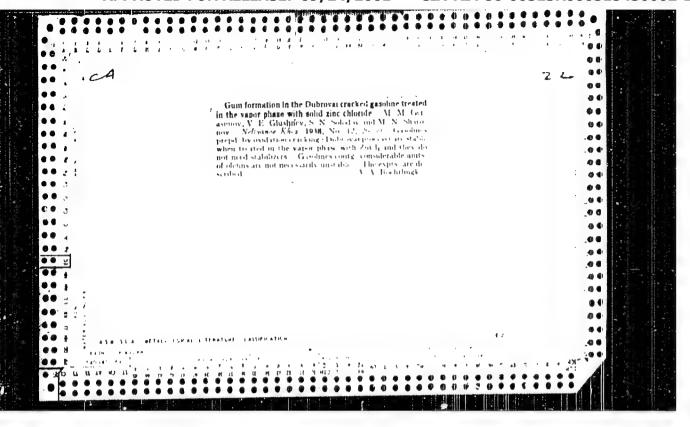


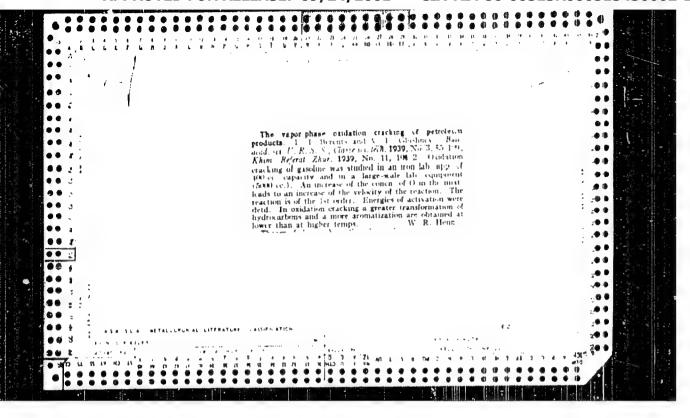


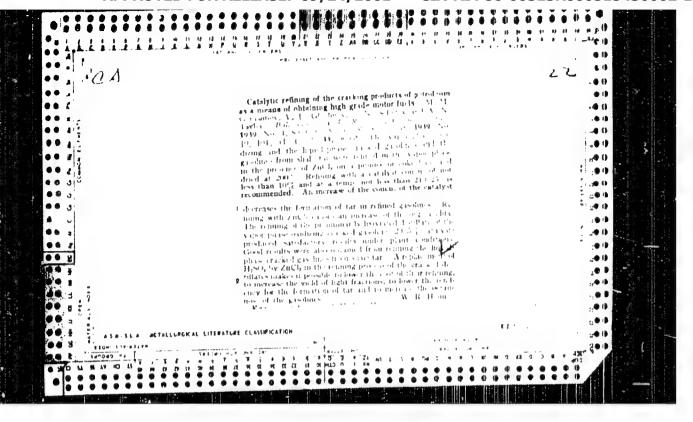


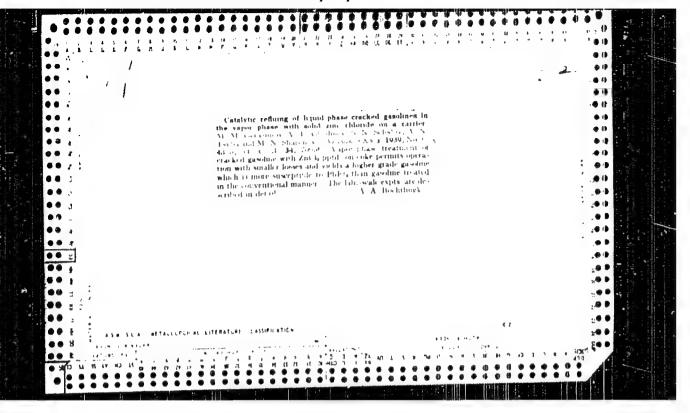


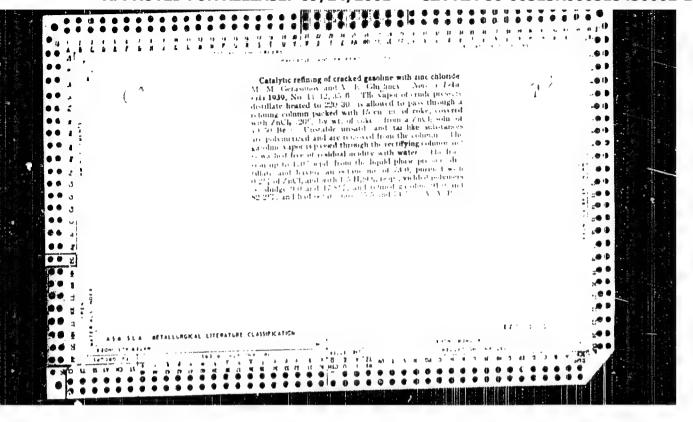


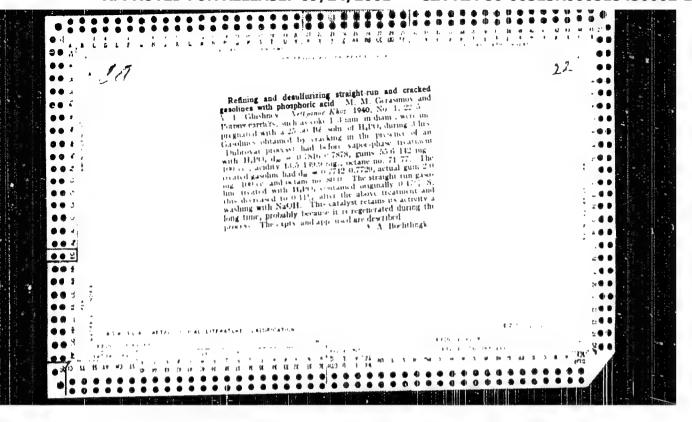


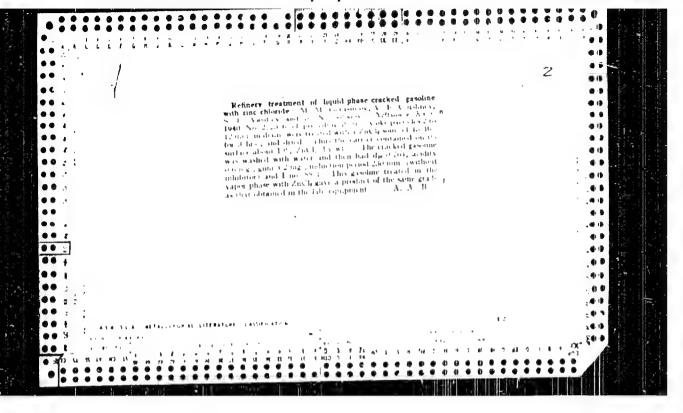


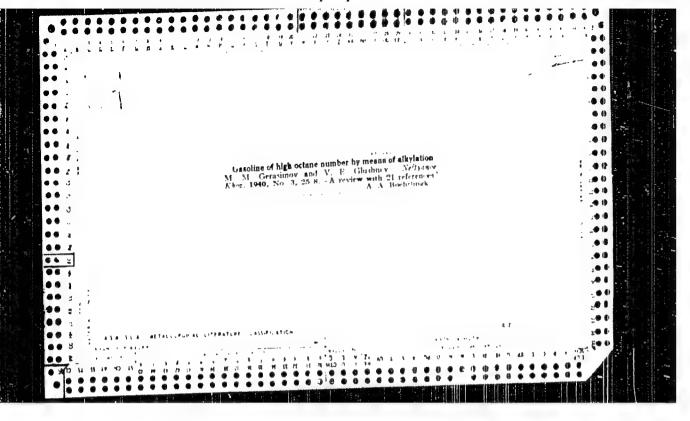


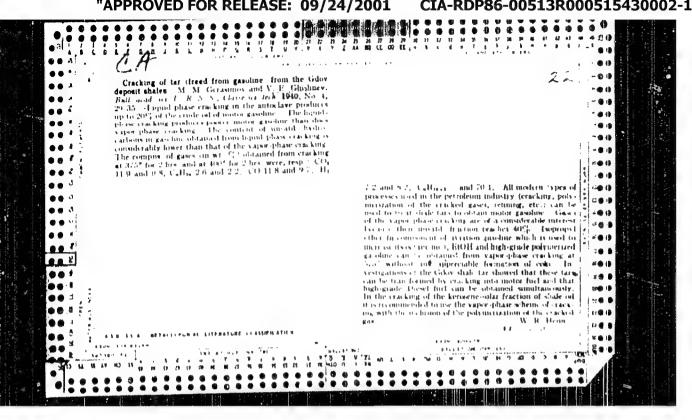


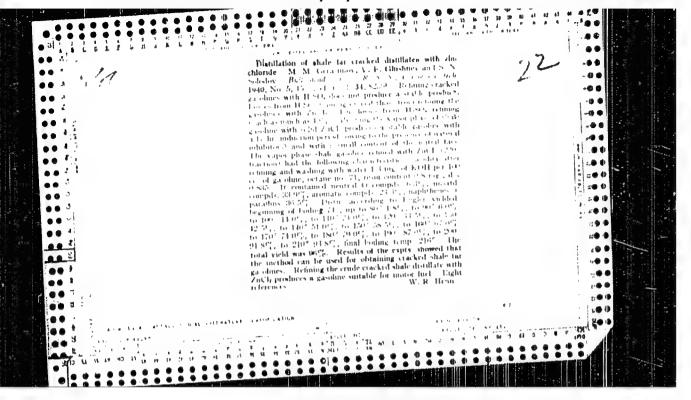


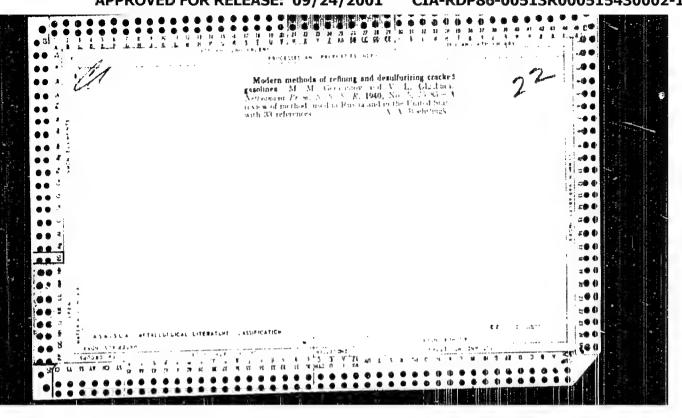








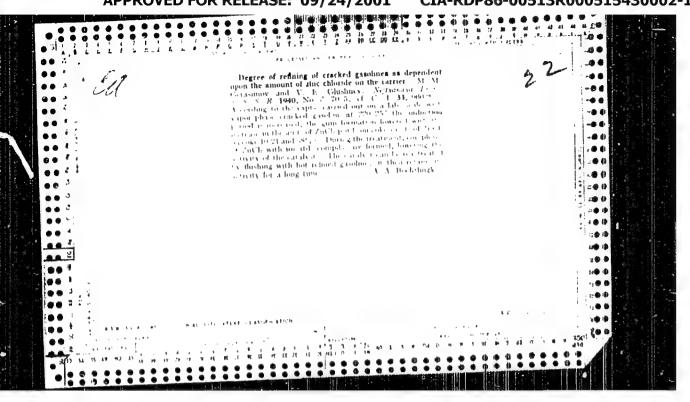


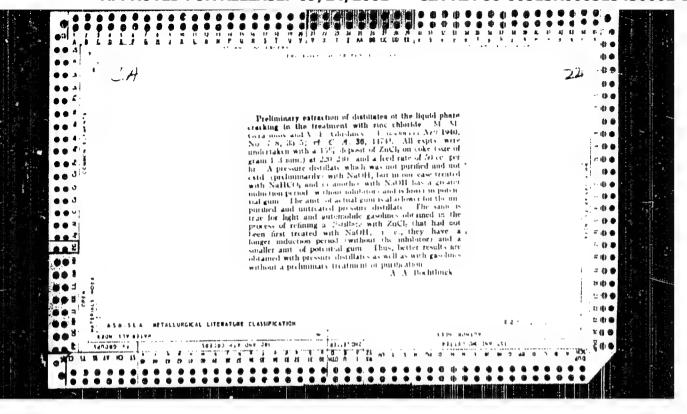


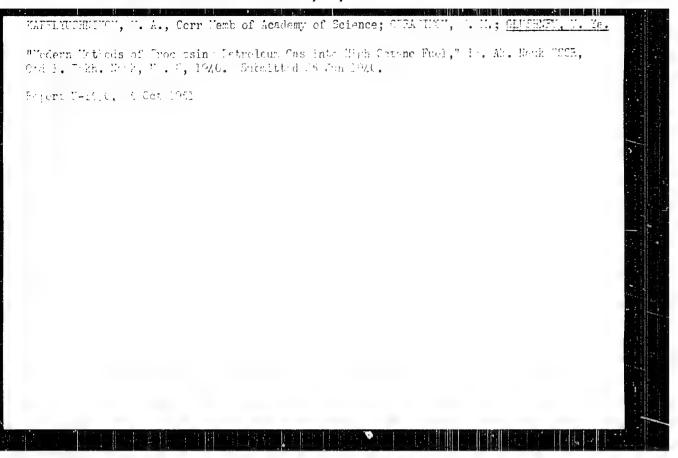
"Natural Petroleum Gases and Cracking Gases of the USSR and Their Processing Methods," Iz. Ak. Nauk SSSR, Otdel Tekh.Nauk, No.5, pp 135-36, 1940

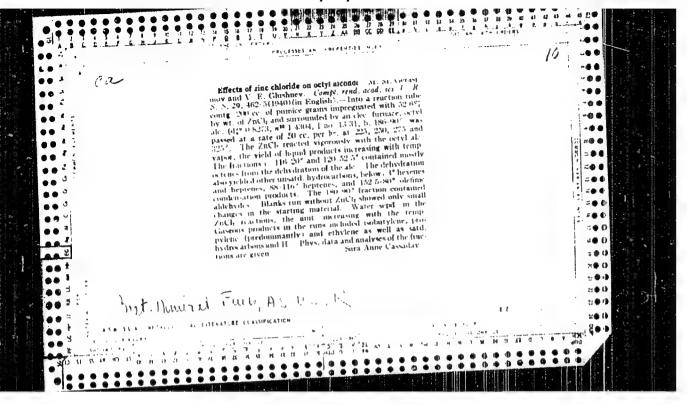
Translation W-24554, 25 Nov 52

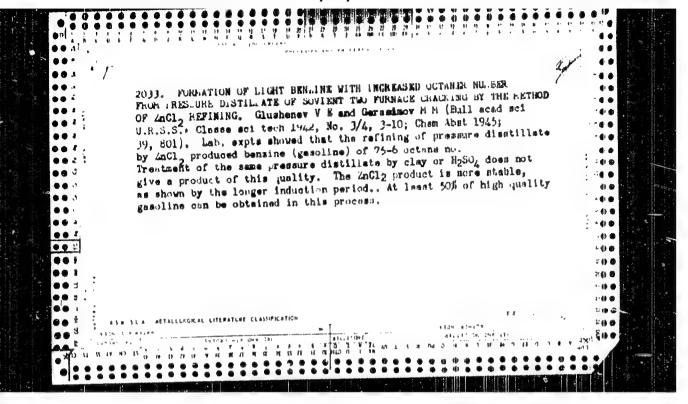
GLUSHNEV, V. Ye. and GERASIMOV, M. M.



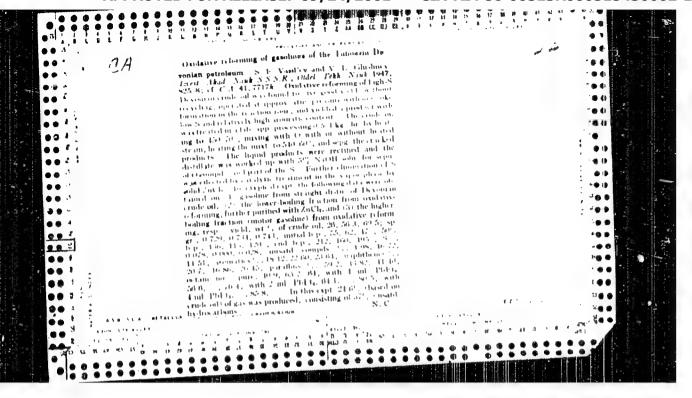


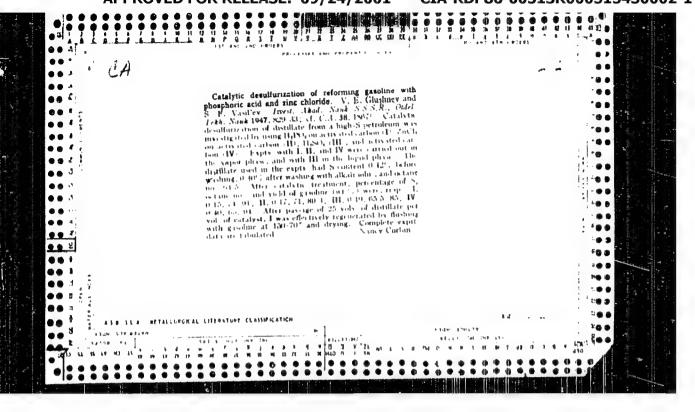


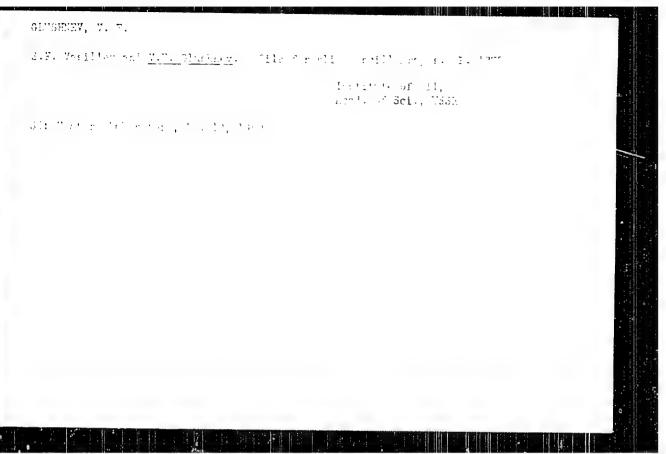




	USSR/Petroleum - Cracking Gasoline - Production	Dec: 1946	
	"The Dehydrogenating Antica of Sin. Ch Refining of Gasoline Produced by Vapor tion Gracking," V. Ye. Glushmer N. G.	Phase Orida	
	"Iz Ak Nauk, Otd Tekh Mank" No 11 7	- 1613-20	
	The presence of a debydrogenating acting the refining of gaseline by caidinating chloride. The debydrogenating rethe influence of sine obloride can be ence of some saturated spirits as well ketones in gasoline oxidation cracking	ng cracking with action under due to the pres- , as cyclic	
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USSR Chemical Technology, Chemical Products and Their Application

I-16

Treatment of natural gases and petroleum. Motor fuels. Lubricants.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31908

Author : Glushnev V. Ye., Nepryakhina A. V.

Inst : Petroleum Institute, Academy of Sciences USSR

Title : Chemical Composition of Gasolines of Primary

Oxidative Cracking

Orig Pub: Tr. In-ta nefti AN SSSR, 1954, 4, 31-37

Abstract: Bibliography 7 references.

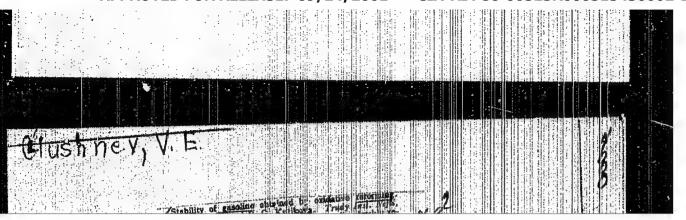
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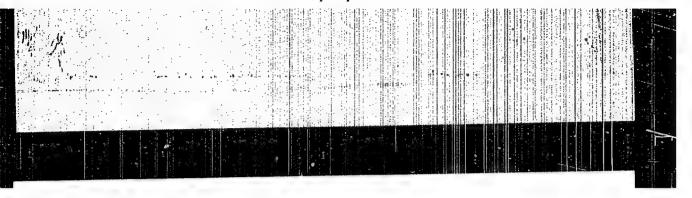
OMESHARY, V.Ye.; MEPRYAKHINA, A.V.; ANDREYEVA, T.P.

Characteristics of hydrocarbon composition of gasolines of oxidative cracking and reforming. Trudy Inst.nefti 4:38-b6 '54.

(Gasoline) (Hydrocarbons)

(HERA 3:1)





317.25 s/c31/62/c00/c09/c19/c75 B158/B101

5.4606

AUTHORS: . Topchiyev, A. V., Polak, L. S., Chernyak, M. Ya.,

Glusnnev, V. Ye., Glazanov, P. Ya., Vereshchinskiy, I. V., Syrkas, H. P., Breger, A. Kh., Vaynshteyn, B. I.

TITLE:

Radiation-heat cracking of hydrocarbons

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 9, 1262, 74 - 70, abstract 98515 (Sb. "Radioakt. izotopy i hadern. izlucheniya

v nar. kn-ve SSSR. v. I". M., Gostoptekhizcat, 1961, 206-216)

TEXT: The low overall yield of radiolysis products from hydrocarbons at room temperature points to the absence of a chain reaction at that temperature. To examine the possibilities of a chain reaction in radiation

cracking, n-heptane was irradiated by Co c-rays at high temperatures.

The samples w re irradiated in 15 ml bulbs made of molybdenum glass with a wall thickness of ol mm. The amount of liquid heptane was 0.25 ml and the pressure in the ampoules on vaporization 2.5 T/273 atm. To prevent local preheating of the walls, the bulb was rotated twice a second. The

Card 1/2

Radiation-heat cracking of hydrocarbons

3/091/62/000/009/019/075 B158/B101

radiation dose output calculated on 1 ml of liquid n-neptane was 2·10¹³ Mev/sec. It is shown that radiation-heat cracking of n-heptane occurs at considerably lower temperatures than purely thermal cracking which needs a temperature of 0.500°C. The yield of liquid unsaturated hydrocarbons from radiation-heat cracking increases from 1.6 at room temperature to 340 at 450°C. The total radiation-chemical yield of low molecular hydro-

carbons is 2000 at 400°C, being therefore \wedge 10³ times as great compared with the radiation-chemical yield of the same products at 20°C. By combining the radiation effect with temperature it is possible to obtain products which offer industrial interest at levels of yield which would be acceptable in practice. Possible sources of radiation for radiation-heat cracking are considered. [Abstracter's note: Complete translation.]

Card 2/2

11 N 11 S

GLUSHNIN V.

PHASE I BOOK EXPLOITATION

SOV/6177

Akademiya nauk SSSR. Institut neftekhimicheskogo sinteza

Radioliz uglevodorodov; nekotoryye fiziko-khimicheskiye problemy (Radiolysis of Hydrocarbons; Some Physicochemical Froblems) Moscow, Izd-vo AN SSSR, 1962. 207 p. Errata slip inserted. 5000 copies printed.

Resp. Eds.: A. V. Topchiyev, Academician, and L. S. Polak, Doctor of Physics and Mathematics; Ed.: L. T. Bugayenko; Tech Ed.: Ch. A. Zentsel'skaya.

PURPOSE: This book is intended for physical and industrial chemists interested in the properties and behavior of irradiated hydrocarbons.

COVERAGE: The book gives a systematic presentation of the results of research on the radiolysis of hydrocarbons carried out from 1957 through 1961 at the Laboratory of Radiation Chemistry, Institut neftekhimicheskogo sinteza AN SSSR (Institute of Petro-

Card 1/4

Radiolysis of Hydrocarbons (Cont.)

SCV/6177

chemical Synthesis, Academy of Sciences USSR). Although the results were obtained for individual compounds, they may be generalized and applied to other members of the same homologous series. The following persons participated in making the experiments and in writing the text: V. G. Beryezkin, V. E. Glushnev, Yu. A. Kolbanovskiy, I. M. Kustanovich, V. D. Popov, A. Ya. Temkin, V. D. Timofeyev, N. Ya. Chernyak, V. A. Shakhray, E. B. Shlikhter, A. S. Shcherbakova, B. M. Negodov, A. Z. Peryshkina, N. M. Eytova, T. A. Tegina, Ya. B. Emin, A. M. Brodskiy, V. V. Voyevodskiy, P. Ya. Glazunov, B. A. Smirnova, and Yu. L. Khait. References, mainly Soviet and English, follow individual chapters.

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Ch. I. Physicochemical Characteristics of Hydrocarbon Radiolysis

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Radiolysis of Hydrocarbons (Cont.)

SOV/6177

Ch. VII. Radiation-Thermal Cracking of Hydrocarbons

185

AVAILABLE: Library of Congress

SUBJECT: Oil and Gas Industries

BN/clb/tem 1-18-63

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AUThORG: Topehiyev, A. V., Vereshchinskiy, I. V.m Glazumov, P. Ya., Glashnev, V. Ye., Polak, L. S., Ryabchikova, G. G., Simoreyev, V. D. and Chernyak, N. Ta.

TITLE: The rack cracking of hydrocarbons induced by it reditation

Jourda: In a. Il Vacabauanogo povesnehuniya po milictolona e khimii. Ed. by L. S. Poluk. mosebw, Ind-vo AN USSK, Lead, 104-307

Tax7: The effect of irradiation on thermal cracking of he time at thermal cracking temperatures and studied. The experimental account of a countercurrent reactor, at constant through at of the gas, using irradiation dosages of 7 x 10¹⁵ eV, secyl tak heptane. The rate of formation of gaseous products during radiation-induced and ordinary thermal cracking at 400 - 500°C was includenced by the reaction temperature. At temperatures above 500°C the relationship between the yield of products obtained by radiation and those obtained by ordinary thermal cracking was in a 4:1 ratio and radia-

dard Wa

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tenderatives (190 - 1000) then ordinary therefore to carried out at the form of a types (190 - 1000) then ordinary there is a compared first and + 2000), but within on any represents against ordinary (11 cm), both as arcinary 200 carlymple for therein in minery. In yleid of masses and liquid answerted compared intermedial temperature and resemble (215,000 no. 160 or attrophed). It temperatures and reached sharply with temperature and of uncontained compositions increased sharply with temperature and reached 500 (as against 50 - 550 during ordinary themsel crucking). Uptimum conditions for the above process were him toward breaking), then and short contact times. There are a figure .

AUSOCIATION: Institut neftexhimichesnogo sinteza, AN 333x (Institutate of Petrochemical Synthesis, Ad 333x (Institutificienskoy khimii, AN 333R (Institute of Physical Chemistry, Ac 853R)

Cara

S/204/62/002/002/005/007 1060/1242

AUTHORS:

Topchiyev, A.V., Polak, L.S., Glushnev, V.Ye., Popov, V.T., Timofeyev, V.D., Glazunov, P.Ya.,

and Ryabchikova, G.G.

TITLE:

Radiction-thermal cracking of petroleum hydrocarbons

PERIODICAL: Neftekhimiya, v.2, no.2, 1962, 196-210

TEXT: This is the first in a series of papers reporting on the basic problems of the radiation-thermal cracking (RTC) process. Investigation deals with the following subjects: 1. RTC of heptane under static conditions; 2. RTC in continuous process in a decreasing under static conditions; 5. RTC in a uniform field; 4. Influefield; 3. RTC in a continuous process in a uniform field; 4. Influence of pressure on RTC; 5. RTC in a mixed field of n and y radiations; 6. Calculation of kinetics, mechanism, and thermodynamic parameters of RTC, and its comparison with other types of cracking and pyrolysis.

: Card 1/2

S/20:/62/002/002/005/007 I060/I242

Radiation-thermal cracking...

This paper compares the first two methods with thermal cracking under the same conditions. The activation energy of the RTC process is very close to the activation energy of thermal cracking. With the rise in the temperature of the RTC process the yield of liquid and gaseous products increases sharply. The output of unsaturated compounds, both gaseous and liquid per unit of crude is considerably higher with the RTC method than with thermal cracking under the same conditions. The rate of the RTC process increases sharply through the action of ionizing radiation. There are 15 figures and 11 tables.

ASSOCIATION: Institut neftekhisicheskogo sinteza AN SSSR (Institute

of Petrochemical Synthesis, AS USSR) and Institut fizicheskoy khimii AN SSSR (Institute of Physical

Chemistry, AS USSR)

SUBMITTED: March 1, 1962

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L.58478-65 ENG(j)/EWT(m)/EPF(c)/EWP(j)/T/ENA(h)/EWA(c)/EW/(W) Po-4/Pr-4/Peli RM ACCESSION NR: AP5015241 UR/0286/65/000/009/0023/0023 541.15847.313.2

AUTHOR: Glushney, V. Ye.; Kolbanovskiy, Yu. A.; Patalakh, I. I.; Polsk, L. S.; Popov, V. T.; Shakhray, V. A.

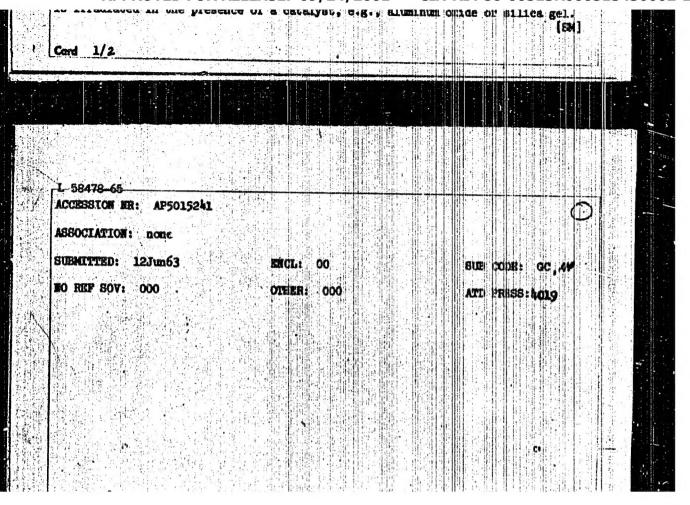
TITLE: Radiation-induced synthesis of organic compounds with various functional groups. Class 12, No. 170503

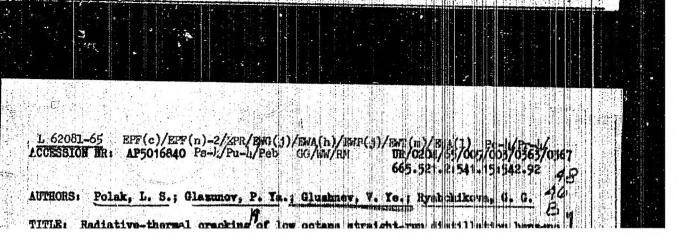
SOURCE: Byulleten' izobreteniy i tovarnykh znakov no. 9, 1965, 23

TOPIC TAGS: radiation, radiation induced synthesis

ABSTRACT: An Author Certificate has been issued for a radiation-injused synthesis of organic compounds having various functional groups, such as carbonylic acids, amines, nitro and nitrosofcompounds; this compounds, alcohols, etc.

"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000515430002-1





in a uniform temperature field

SOURCE: Neftekhimiya, v. 5, no. 3, 1965, 363-367

TOPIC TAGS: benzene, distillation, reactor, radiation effect, thermal decomposition

ABSTRACT: The present work is a continuation of an earlier investigation. The present experiments were conducted with an improved electron source reactor in which a uniform temperature field could be established. Low-octane at might-run distillation benzene (with the end of boiling at 140C) was cracked at 500, 550, and 600C at the pump-through-velocity of 150 ml/hour in the reactor shown at tematically. Yield and composition of the thermal and radiation-thermal cracking products of the same benzene in the reactors with and without a uniform temperature field was tabulated

